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IS 8723 (1978): Dimensions for vibrating conveyors and feeders with rectangular or trapezoidal trough [MED 6: Continuous Bulk Conveying, Elevating, Hoisting Aerial Ropeways and Related Equipment]

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IS : 8723 - 1978
(Reaffirmed 1998)

Indian Standard

DIMENSIONS FOR VIBRATING CONVEYORS AND FEEDERS WITH RECTANGULAR OR TRAPEZOIDAL TROUGH

Conveyors, Vertical Hoists and Bucket Elevators Sectional Committee, EDC 61; Feeders Subcommittee, EDC 61 : 9 [Ref : Doc : EDC 61 (2888)]

1. Scope — Lays down the dimensions for vibrating conveyors and feeders with rectangular or trapezoidal trough.

2. Types

2.1 The vibrating conveyors and feeders shall be of the following types:

Type A — Rectangular flat-bottom trough (*see* Fig. 1)
Type B — Trapezoidal flat-bottom trough (*see* Fig. 2)
Type C — Rectangular dished-bottom trough (*see* Fig. 3)
Type D — Trapezoidal dished-bottom trough (*see* Fig. 4)

3. Dimensions — As shown in Fig. 1 to 5.

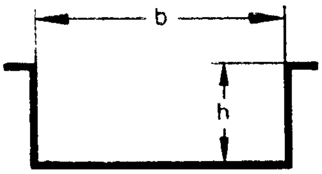

FIG. 1 RECTANGULAR FLAT-BOTTOM TROUGH

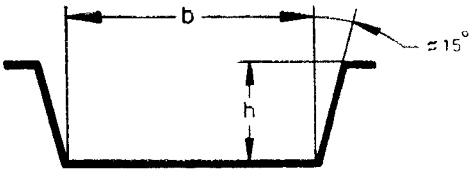

FIG. 2 TRAPEZOIDAL FLAT-BOTTOM TROUGH

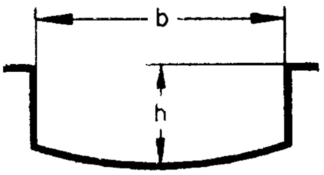

FIG. 3 RECTANGULAR DISHED-BOTTOM TROUGH

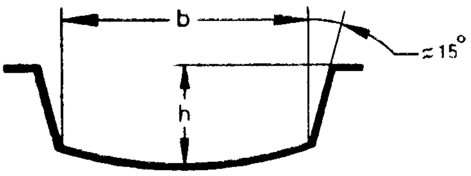

FIG. 4 TRAPEZOIDAL DISHED-BOTTOM TROUGH

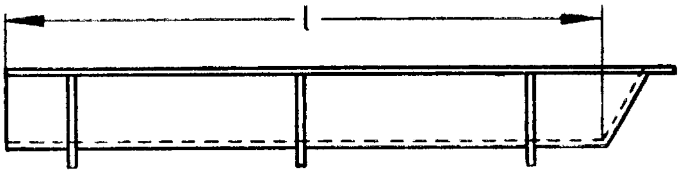

FIG. 5 LENGTH OF TROUGH

3.1 *Width of Trough* — The width of the trough is the inside width *b* of the bottom.

b mm	125	160	200	230	315	400	500	630	800	1 000	1 250	1 600

Note — The above values have been taken from the R 10 series of preferred numbers [*see* IS : 1076-1967 Preferred numbers (*first revision*)].

3.2 *Height of Trough* — The height of the trough is the vertical distance *h* between the bottom and the upper part of the trough.

h mm	80	100	125	160	200	250	315	400

Note — The above values have been taken from the R 10 series of preferred numbers. It is permissible to use the R 20 series of preferred numbers for intermediate values.

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3.3 *Length of Trough* — The length of the trough (*see* Fig. 5) is the inside length *l* of the bottom.

l mm	500	750	1 000	1 250	1 500	1 750	2 000	2 500	3 000	3 500	4 000

Note — It is also permissible to use the R 5 series of preferred numbers and, for intermediate values, the R 10 or R 20 series of preferred numbers.

4. Vibrations — The frequencies *f* to apply on the trough and the corresponding oscillation distances *a* determined with regard to the flow, the characteristics of the carried material, the length of the trough, and the type of appliance, shall be chosen from the values given in Table 1.

TABLE 1 FREQUENCIES AND OSCILLATION DISTANCES

Oscillations per minute	750	1 000	1 500	3 000	6 000
f Hz	12·5	16·7	25	50	100
a mm	5 to 32	2·5 to 17	1·2 to 8	0·3 to 3	0·07 to 1

Note — The specifications of vibrations given above are based on the frequency of electric current of 50 Hz.

EXPLANATORY NOTE

This standard is in conformity with ISO 1049-1975 'Continuous mechanical handling equipment for loose bulk materials — Vibrating conveyors and feeders with rectangular or trapezoidal trough'.

For vibrating conveyors, it is possible to allow for several inlet and discharge points.

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